Comp. Biochem. Physiol. Vol. 131B, No. 4 pp. I–IV, 2002

ELSEVIER

CONTENTS OF VOLUME 131

Vol. 131B, No. 1

General papers

D.-F. Hwang and T.-K. Lin	1	Effect of temperature on dietary vitamin C requirement and lipid in common carp
B. Nasser, M.S. El Kebbaj, P. Cottin and N. Latruffe	9	Purification and characterization of the D-β-hydroxybutyrate dehydrogenase from dromedary liver mitochondria
G. Bogé, H. Roche and C. Balocco	19	Amino acid transport by intestinal brush border vesicles of a marine fish, *Boops salpa*
J.A. MacDonald and K.B. Storey	27	Protein phosphatase type-1 from skeletal muscle of the freeze-tolerant wood frog
H.Y.S. Cheung, K.M. Chan, T.B. Ng and C.H.K. Cheng	37	Production of a polyclonal antibody against recombinant goldfish prolactin and demonstration of its usefulness in a non-competitive antigen-capture ELISA
R. Lai, H. Liu, W.H. Lee and Y. Zhang	47	Identification and cloning of a trypsin inhibitor from skin secretions of Chinese red-belly toad *Bombina maxima*
R.S. Da Silva, G. de Paula Cognato, M.R. Bogo, M. de Graça Fauth, C.A. Fin, J.W. Thomé, C.D. Bonan and R.D. Dias	55	Unique Ca^{2+}-activated ATPase in the nervous ganglia of *phyllocaulis soleiformis* (Mollusca)
T. Suzuki, A.S. Srivastava and T. Kurokawa	63	cDNA cloning and phylogenetic analysis of pancreatic serine proteases from Japanese flounder, *Paralichthys olivaceus*
R. Savan and M. Sakai	71	Analysis of expressed sequence tags (EST) obtained from common carp, *Cyprinus carpio* L., head kidney cells after stimulation by two mitogens, lipopolysaccharide and concanavalin-A
N.M. Carballeira, C. Miranda and A.D. Rodríguez	83	Phospholipid fatty acid composition of *Gorgonia mariae* and *Gorgonia ventalina*
F. Basaglia	89	Multilocus isozyme systems in African lungfish, *Protopterus annectens*: distribution, differential expression and variation in dipnoans
R. Preneta, S. Jarraud, C. Vincent, P. Doublet, B. Duclos, J. Etienne and A.J. Cozzone	103	Isolation and characterization of a protein-tyrosine kinase and a phosphotyrosine-protein phosphatase from *Klebsiella pneumoniae*
	I	Instructions to Authors

Vol. 131B, No. 2

	113	In appreciation

General papers

A.K. Mukherjee and C.R. Maity	125	Biochemical composition, lethality and pathophysiology of venom from two cobras — *Naja naja* and *N. kaouthia*
G.M.C. Renshaw, C.B. Kerrisk and G.E. Nilsson	133	The role of adenosine in the anoxic survival of the epaulette shark, *Hemiscyllium ocellatum*
L.-J. Shih, C.A. Chen, C.-P. Chen, S.-P.L. Hwang	143	Identification and characterization of bone morphogenetic protein 2/4 gene from the starfish *Archaster typicus*
Y.-H. Kao, J.H. Youson, B. Vick and M.A. Sheridan	153	Differences in the fatty acide composition of larvae and metamorphosing sea lampreys, *Petromyzon marinus*
C. Szebedinszky and K.M. Gilmour	171	The buffering power of plasma in brown bullhead *(Ameiurus nebulosus)*
S. MacKenzie, C.P. Cutler, N. Hazon and G. Cramb	185	The effects of dietary sodium loading on the activity and expression of Na, K-ATPase in therectal gland of the European Dogfish *(Scyliorhinus canicula)*

P. Vincent, C. Adler, C. Avila, C. Guardia, E. De Vito	201	Prorenins activation by an enzyme from rat plasma *(PreR-Co)*
T. Irie and T. Seki	209	Retinoid composition and retinal localization in the eggs of teleost fishes
Y. Tamada, C. Fukiage, S. Daibo, Y. Yoshida, M. Azuma and T.R. Shearer	221	Involvement of calpain in hypoxia-induced damage in rat retina in vitro
M. Kajimura, K. Iwata and H. Numata	227	Diurnal nitrogen excretion rhythm of the functionally ureogenic gobiid fish *Mugilogobius abei*
M.T. Mazorra, J.A. Rubio and J. Blasco	241	Acid and alkaline phosphatase activities in the clam *Scrobicularia plana:* kinetic characteristics and effects of heavy metals
B.-Y. Jeong, W.-G. Jeong, S.-K. Moon and T. Ohshima	251	Preferential accumulation of fatty acids in the testis and ovary of cultured and wild sweet smelt *Plecoglossus altivelis*
K.J. McGraw, G.E. Hill, R. Stradi and R.S. Parker	261	The effect of dietary carotenoid access on sexual dichromatism and plumage pigment composition in the American goldfinch
	I	Instructions to Authors

Vol. 131B, No. 3

Review articles

J.L. Soengas and M. Aldegunde	271	Energy metabolism of fish brain
F. Sunny, P.S. Lakshmy and O.V. Oommen	297	Rapid action of cortisol and testosterone on lipogenic enzymes in a fresh water fish *Oreochromis mossambicus:* short-term in vivo and in vitro study

General papers

M. Page, L.J. Nelson, B.T. Forschler and M.I. Haverty	305	Cuticular hydrocarbons suggest three lineages in *Reticulitermes (Isoptera: Rhinotermitidae)* from North America
P. Sithigorngul, J. Pupuem, C. Krungkasem, S. Longyant, P. Chaivisuthangkura, W. Sithigorngul and A. Petsom	325	Seven novel FMRFamide-like neuropeptide sequences from the eyestalk of the giant tiger prawn *Penaeus monodon*
M.H. Morales, S.M. Pagán and Y. Gómez	339	Immunodissection of yolk lipovitellin (LV_1) demonstrates the existence of different LV_1-domains and suggests a complex family of vitellogenin genes in the lizard *Anolis pulchellus*
J.M. Holmes, N.M. Whiteley, J.L. Magnay and A.J. El Haj	349	Comparison of the variable loop regions of myosin heavy chain genes from Antarctic and temperate isopods
G. Ziegler, K. Paynter and D. Fisher	361	Matrix metalloproteinase-like activity from hemocytes of the eastern oyster, *Crassostrea virginica*
N. Niizeki, T. Daikoku, T. Hirata, I. El-Shourbagy, X. Song and M. Sakaguchi	371	Mechanism of biosynthesis of trimethylamine oxide from choline in the teleost tilapia *Oreochromis niloticus*, under freshwater conditions
N. Shirai, M. Terayama and H. Takeda	387	Effect of season on the fatty acid composition and free amino acid content of the sardine *Sardinops melanostictus*
J.-M. Njinkoué, G. Barnathan, J. Miralles, E.-M. Gaydou and A. Samb	395	Lipids and fatty acids in muscle, liver and skin of three edible fish from the Senegalese coast: *Sardinella maderensis, Sardinella aurita* and *Cephalopholis taeniops*
P.K. Mahapatra, P. Mohanty-Hejmadi and G.B.N. Chainy	403	Oxidative stress during vitamin A-induced abnormal tail regeneration in the tadpoles of *Polypedates maculatus*
K. Mounaji, N.-E. Erraiss, A. Iddar, M. Wegnez, A. Serrano and A. Soukri	411	Glyceraldehyde-3-phosphate dehydrogenase from the newt *Pleurodeles waltl*. Protein purification and characterization of a *GapC* gene
K.D. Johnson, A. Clark and S. Marshall	423	A functional comparison of ovine and porcine trypsins
M. Saito, H. Kitamura and K. Sugiyama	433	Occurrence and tissue distribution of *c*-series gangliosides in the common squid *Todarodes pacificus*
J. Guo, A. Pal, S.K. Srivastava, J.L. Orchard and S.V. Singh	443	Differential expression of glutathione *S*-transferase isoenzymes in murine small intestine and colon

F. Zeng, Y. Zhu and A. Cohen	453	Partial characterization of trypsin-like protease and molecular cloning of a trypsin-like precursor cDNA in salivary glands of *Lygus lineolaris*
A.J. Tempone, D.R. Furtado, E.R.T. Gimba, F.M.B. Oliveira and F.D. Rumjanek	465	Dolichol phosphate mannose synthase is differentially expressed in male and female worms of *Schistosoma mansoni*
B. Moesgaard, G. Petersen, S.A. Mortensen and H.S. Hansen	475	Substantial species differences in relation to formation and degradation of *N*-acyl-ethanolamine phospholipids in heart tissue: an enzyme activity study
K. Ishioka, K. Kanehira, N. Sasaki, H. Kitamura, K. Kimura and M. Saito	483	Canine mitochondrial uncoupling proteins: structure and mRNA expression of three isoforms in adult beagles
M.P. Carrasco, J.M. Jiménez-López, J.L. Segovia and C. Marco	491	Comparative study of the effects of short- and long-term ethanol treatment and alcohol withdrawal on phospholipid biosynthesis in rat hepatocytes
A. Wilimowska-Pelc, Z. Olichwier, A. Mazurkiewicz, J. Kowalska and T. Wilusz	499	Kazal-type chymotrypsin inhibitor from duck pancreas
A.K. Essamadi, M. Bengoumi, D. Zaoui, B. Faye, G.C. Bellenchi, G. Musci and L. Calabrese	509	Purification and partial characterization of camel (*Camelus Dromedarius*) ceruloplasmin
S. Ikeda and N. Takata	519	Deoxyribonuclease II purified from *Euglena gracilis* SM-ZK, a chloroplast-lacking mutant: comparison with porcine spleen deoxyribonuclease II
R.B. David, Ø.V. Sjaastad, A.K. Blom, S. Skogtvedt, M. Opsata and I. Harbitz	527	Ontogeny of erythropoietin mRNA expression in liver, kidneys and testes of the foetal and the neonatal pig
K.M. Soliman, M.A. Aziz, Y.H. Nassar, S. Abdel-Sattar and A. El-Ansary	535	Effects of carnosine on bilharzial infestation in hamsters: biochemical and histochemical studies
K. Stefanov, J. Nechev, G. Lavchieva-Nacheva, N. Nikolova, K. Seizova, M. Kwartirnikov, V. Lavchiev and S. Popov	543	Lipids and sterols in *Musca domestica* L. (Diptera, Muscidae): changes after treatment with sucrose and lead
M. Cechowska-Pasko, M. Wolańska and J. Pałka	551	Glycosaminoglycan-degrading enzymes in the skin of fasted rats
	I	Instructions to Authors

Vol. 131B, No. 4

Papers from the Physiological and Biochemical Adaptations to Australasian and Southern African Environments symposium, Cambridge, July 30–August 3, 2000

Symposium papers

S. Morris	559	The ecophysiology of air-breathing in crabs with special reference to *Gecarcoidea natalis*
D. Mitchell, S.K. Maloney, C. Jessen, H.P. Laburn, P.R. Kamerman, G. Mitchell and A. Fuller	571	Adaptive heterothermy and selective brain cooling in arid-zone mammals
S.L. Chown, A. Addo-Bediako and K.J. Gaston	587	Physiological variation in insects: large-scale patterns and their implications
S. Nicol and N.A. Andersen	603	The timing of hibernation in Tasmanian echidnas: why do they do it when they do?
S. Jackson and S.W. Nicolson	613	Xylose as a nectar sugar: from biochemistry to ecology
R.T. Gemmell, C. Veitch and J. Nelson	621	Birth in marsupials
M.B. Thompson, J.R. Stewart, B.K. Speake, M.J. Hosie and C.R. Murphy	631	Evolution of viviparity: what can Australian lizards tell us?
S.W. Nicolson	645	Pollination by passerine birds: why are the nectars so dilute?

Review articles

C.L. Broadhurst, Y. Wang, M.A. Crawford, S.C. Cunnane, J.E. Parkington and W.F. Schmidt	653	Brain-specific lipids from marine, lacustrine, or terrestrial food resources: potential impact on early African *Homo sapiens*

Contents of volume

J.F. Siebenaller and D.J. Garrett	675	The effects of the deep-sea environment on transmembrane signaling
General papers		
M.M. Nelson, D.L. Leighton, C.F. Phleger and P.D. Nichols	695	Comparison of growth and lipid composition in the green abalone, *Haliotis fulgens*, provided specific macroalgal diets
M.P. Sangorrín, C.B. Martone and J.J. Sánchez	713	Myofibril-bound serine protease and its endogenous inhibitor in mouse: extraction, partial characterization and effect on myofibrils
K.E. Alleva, M.V. Espelt, G. Krumschnabel and P.J. Schwarzbaum	725	Identification of two distinct E-NTPDases in liver of goldfish (*Carassius auratus* L.)
C.F. Phleger, M.M. Nelson, B.D. Mooney and P.D. Nichols	733	Interannual and between species comparison of the lipids, fatty acids and sterols of Antarctic krill from the US AMLR Elephant Island survey area
S. Zhu and W. Li	749	Precursors of three unique cysteine-rich peptides from the scorpion *Buthus martensii* Karsch
L. Qiu and R.A. Bedding	757	Characteristics of protectant synthesis of infective juveniles of *Steinernema carpocapsae* and importance of glycerol as a protectant for survival of the nematodes during osmotic dehydration
M. Papina, Y. Sakihama, C. Bena, R. van Woesik and H. Yamasaki	767	Separation of highly fluorescent proteins by SDS-PAGE in Acroporidae corals
H. Oku, H.Y. Ogata and X.F. Liang	775	Organization of the lipoprotein lipase gene of red sea bream *Pagrus major*
E. Baldoni, D. Tomassoni, E. Traini, S.R. Indraccolo, R. Ricci and L. Vitaioli	787	Sulfatides and arylsulfatase A activity in major salivary glands of hamster (*Mesocricetus auratus*) after adenocarcinoma induction in oral cavity
Y.-H. Chen, C.-T. Liang and H.-J. Tsai	795	Expression, purification and DNA-binding activity of tilapia muscle-specific transcription factor, MyoD, produced in *Escherichia coli*
W.A. Partata, J.F. Cerveira, L.L. Xavier, G.G. Viola and M. Achaval	807	Sciatic nerve transection decrease substance P immunoreactivity in the lumbosacral spinal cord of the frog (*Rana catesbeiana*)
J.L. Avanzo, C.X. de Mendonça Junior and M. de Cerqueira Cesar	815	Role of antioxidant systems in induced nutritional pancreatic atrophy in chicken
	I	Contents of Vol. 131
	V	Subject index
	VIII	Author index
	X	Instructions to Authors